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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Adoption of OPC and the impact on design and layout](#)**

F. M. Schellenberg, Olivier Touban, Luigi Capodiec, Bob Socha

June 2001 **Proceedings of the 38th conference on Design automation**Full text available: pdf(574.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the adoption of various combinations of resolution enhancement techniques (RET) for IC lithography, different process constraints are placed on the IC layout. The final layout used for mask production is dramatically different than the original designer's intent. To insure that EDA tools developed for applying RET techniques can have optimal performance, layout methodology must change to create a true "target" layer that represents the actual design intent. Verification of ...

Keywords: OAI, OPC, PSM, Quasar, RET, SRAF, lithography, off-axis illumination, phase-shifting, quadrupole, scattering bars

2 [Effects of wavelength routing and selection algorithms on wavelength conversion gain in WDM optical networks](#)

Ezhan Karasan, Ender Ayanoglu

April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2Full text available: pdf(247.94 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: optical networks, routing, wavelength conversion, wavelength selection

3 [Sound rendering](#)

Tapio Takala, James Hahn


July 1992 **ACM SIGGRAPH Computer Graphics, Proceedings of the 19th annual conference on Computer graphics and interactive techniques**, Volume 26 Issue 2Full text available: pdf(3.10 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: audio, multimedia, physically-based modeling, soundtrack, virtual reality

4 Enabling alternating phase shifted mask designs for a full logic gate level: design rules and design rule checking

Lars Liebmann

June 2001 **Proceedings of the 38th conference on Design automation**


Full text available:  [pdf\(79.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The International Technology Roadmap for Semiconductors lists F2 (1 = 157 nm) optical lithography and extreme ultraviolet next generation lithography as the two most feasible lithography solutions for the 70 nm technology node. It is likely that both of these solutions will be late, forcing ArF (1 = 193 nm) lithography to operate at unprecedented resolution levels. Theoretically, alternating phase shifted masks ("altPSM") can achieve the resolution required to manufacture 70 nm ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Impact of RET on physical layouts

Franklin M. Schellenberg, Luigi Capodieci

April 2001 **Proceedings of the 2001 international symposium on Physical design**

Full text available:  [pdf\(238.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, we briefly describe the lithography developments known as RET (Resolution Enhancement Technologies), which include off-axis illumination in litho tools, Optical and Process Correction (OPC), and phase shifting masks (PSM). All of these techniques are adopted to allow ever smaller features to be reliably manufactured, and are being generally adopted in all manufacturing below 0.25 microns. However, their adoption also places certain restrictions on layouts. We explore these re ...

Keywords: DFM, OPC, PSM, RET, lithography, off-axis illumination, phase-shifting, physical verification, simulation

7 An optical simulation of shared memory

Leslie Ann Goldberg, Yossi Matias, Satish Rao

August 1994 **Proceedings of the sixth annual ACM symposium on Parallel algorithms and architectures**


Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a work-optimal randomized algorithm for simulating a shared memory machine (PRAM) on an optical communication parallel computer (OCPC). The OCPC model is motivated by the potential of optical communication for parallel computation. The memory of an OCPC is divided into modules, one module per processor. Each memory module only services a request on a timestep if it receives exactly one memory request. Our algorithm simulates each step of an $n \lg \lg$

8 [An enhanced flow model for constraint handling in hierarchical multi-view design environments](#)

Pieter van der Wolf, Olav ten Bosch, Alfred van der Hoeven

November 1994 **Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**


Full text available:  pdf(958.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present an enhanced design flow model that increases the capabilities of a CAD framework to support design activities on hierarchical multi-view design descriptions. This flow model offers new constructs for the configuration of complex design constraints in terms of conditions on the hierarchical multi-view structure of a design. The design flow management system enforces these constraints and uses them to inform the designer more effectively about the validity of verification ...

9 [A compiler framework for speculative analysis and optimizations](#)

Jin Lin, Tong Chen, Wei-Chung Hsu, Pen-Chung Yew, Roy Dz-Ching Ju, Tin-Fook Ngai, Sun Chan

May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation**, Volume 38 Issue 5

Full text available:  pdf(323.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Speculative execution, such as control speculation and data speculation, is an effective way to improve program performance. Using edge/path profile information or simple heuristic rules, existing compiler frameworks can adequately incorporate and exploit control speculation. However, very little has been done so far to allow existing compiler frameworks to incorporate and exploit data speculation effectively in various program transformations beyond instruction scheduling. This paper proposes a ...

Keywords: data speculation, partial redundancy elimination, register promotion, speculative SSA form, speculative weak update

10 [Vision and the graphical simulation of spatial structure](#)

W. A. van de Grind

January 1987 **Proceedings of the 1986 workshop on Interactive 3D graphics**

Full text available:  pdf(3.51 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One important message of this paper is that vision research is highly relevant to 3D graphics technology and that modern electronic graphical systems can and soon will strongly stimulate the further development of vision science. First an outline is given of ecological optics, the discipline trying to describe the visual information available to an active (mobile, structure-seeking) observer. Whereas ecological

optics describes the available visual structure, the observables, psychophysics ...

11 A compiler framework for speculative optimizations

Jin Lin, Tong Chen, Wei-Chung Hsu, Pen-Chung Yew, Roy Dz-Ching Ju, Tin-Fook Ngai, Sun Chan

September 2004 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 1 Issue 3

Full text available:  pdf(466.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Speculative execution, such as control speculation or data speculation, is an effective way to improve program performance. Using edge/path profile information or simple heuristic rules, existing compiler frameworks can adequately incorporate and exploit control speculation. However, very little has been done so far to allow existing compiler frameworks to incorporate and exploit data speculation effectively in various program transformations beyond instruction scheduling. This paper proposes a ...

Keywords: Data speculation, partial redundancy elimination, register promotion, speculative SSA form, speculative weak update

12 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Full text available:  pdf(5.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

13 Determining the instantaneous axis of translation from optic flow generated by arbitrary sensor motion (abstract only)

J. H. Rieger, D. T. Lawton

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1


Full text available:  pdf(3.92 MB) Additional Information: [full citation](#), [abstract](#)

This paper develops a simple and robust procedure for determining the instantaneous axis of translation from image sequences induced by unconstrained sensor motion. The procedure is based upon the fact that difference vectors at discontinuities in optic flow fields generated by sensor motion relative to a stationary environment are oriented along translational field lines. This is developed into a procedure consisting of three steps: 1) locally computing difference vectors from an optic flow field ...

14 Simple, efficient shared memory simulations

Martin Dietzfelbinger, Friedhelm Meyer auf der Heide

August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**

Full text available:  pdf(953.42 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4


Full text available:  pdf(6.23 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

16 Multiprocessor simulation of neural networks with NERV


R. Manner, R. Horner, R. Hauser, A. Genthner

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**Full text available:  pdf(1.08 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A general-purpose simulation system for neural networks is computationally very demanding. This paper presents some estimations of the computing power required, the necessary interconnection bandwidth, and the requisite memory size. Next, the hardware architecture of the NERV multiprocessor system is derived that fulfills these requirements. Up to 320 processors 68020 are used in a single VME crate together with a Macintosh II as a host computer. This set-up provides a computing power of 13 ...

17 Adapting optical-flow to measure object motion in reflectance and x-ray image sequences (abstract only)

Nancy Cornelius, Takeo Kanade

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1Full text available:  pdf(3.92 MB)Additional Information: [full citation](#), [abstract](#)

This paper adapts Horn and Schunck's work on optical flow to the problem of determining arbitrary motions of objects from 2-dimensional image sequences. The method allows for gradual changes in the way an object appears in the image sequence, and allows for flow discontinuities at object boundaries. We find velocity fields that give estimates of the velocities of objects in the image plane. These velocities are computed from a series of images using information about the spatial and temporal bri ...

18 3D balance in legged locomotion: modeling and simulation for the one-legged case (abstract only)

Seshashayee S. Murthy, Marc H. Raibert

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1Full text available:  pdf(3.92 MB)Additional Information: [full citation](#), [abstract](#)

This paper explores the notion that the motion of dynamically stable 3D legged systems can be decomposed into a planar part that accounts for large leg and body motions that provide locomotion, and an extra-planar part that accounts for subtle corrective motions that maintain planarity. The large planar motions raise and lower the legs to achieve stepping, and they propel the system forward. The extra-planar motions ensure that the legged system remains in the plane. A solution of this form is s ...

19 Simulation in material flow systems—trends and developments

Bernd Noche

March 1986 **Proceedings of the 19th annual symposium on Simulation**Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [references](#), [index terms](#)**20** An axiomatic basis for general discrete-event modeling

Sanjai Narain

December 1991 **Proceedings of the 23rd conference on Winter simulation**Full text available:  pdf(849.90 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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IEE JNL IEE Journal or Magazine

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